# GRC Payload Safety Work Group

Maria Havenhill Jerri Ling William Schoren

PBMA Communities of Practice IV Workshop November 14-17, 2005

# Our Work Group

## Glenn Research Center Payload Safety

- GRC Payload Safety group is composed of system safety engineers working primarily on payloads that fly on the Shuttle or International Space Station carriers
- Membership includes civil servant and support service contractor safety professionals working at GRC

# History of GRC Payload Safety Work Group

- Began life as a Standard Security Work Group
- Was the first standard security work group to migrate to Enhanced Security Work Group status for PBMA
- Established as a ESWG in July 2004

## Support to JSC

### March 2005

 GRC safety group first learned of the request for SMA support from NASA JSC

## **April 2005**

- 3 SAIC & ESA contractors traveled to Houston to provide safety, quality, and software assurance expertise to JSC/Code NT (Government Furnished Equipment)
- Planned initial time duration 4 weeks
- Delay of STS-114's launch from May 2005 to July 2005 started the rotation of GRC safety personnel

## Activities at JSC/Code NT

- Acquired and archived Code NT policy documents and governing safety requirements
- Reviewed and provided comments to the Risk Assessment Executive Summary Reports (RAESRs), FMEA/CILs, and hazard reports
- Provided comments to assigned System Safety Engineers (SSE)
- Supported Safety and Mission Assurance Review Team (SMART) reviews

## Activities at GRC

- Safety engineer at JSC posted documents for review in weekly folders
- Jerri Ling had overall responsibility for determining document review assignments
- Documents were placed into the individuals' folders
- Information for the SMART meetings and assigned SSEs were posted on the SMART Meetings calendar
- Safety engineers at GRC reviewed documents and sent comments to the safety engineer at JSC

# Specific Features We Used from the Work Group

External Links

- Document Library
- Calendar

Databases

# How Our PBMA Work Group Helped Us Support Return to Flight

- We were able to continue support even though the number of personnel at JSC was reduced to a minimum
- We were able to share large files between centers that might not be sent through regular e-mail channels
- We had a single, secure source where all members of our team could access useful links, documents and forms, and were not restricted by NASA firewalls
- Was very easy to use by our team

## **Future Use**

 There may be opportunities for future collaborations between GRC and other centers

 This could become a tool for training future system safety engineers at GRC

## Issues

- Work groups now have more capabilities than before – our group needs to learn more and better ways to use this valuable resource
- We haven't decided on the types of knowledge artifacts we can produced for use by the entire team

## Thank You!

#### Maria Havenhill

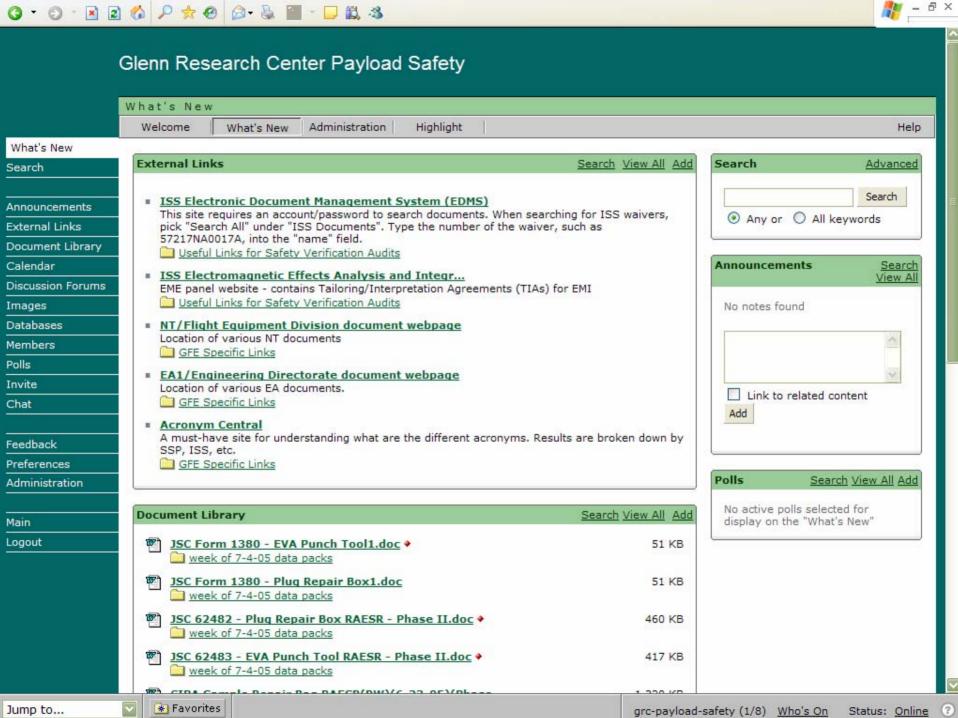
SAIC Maria.A.Havenhill@grc.nasa.gov 440-962-3105

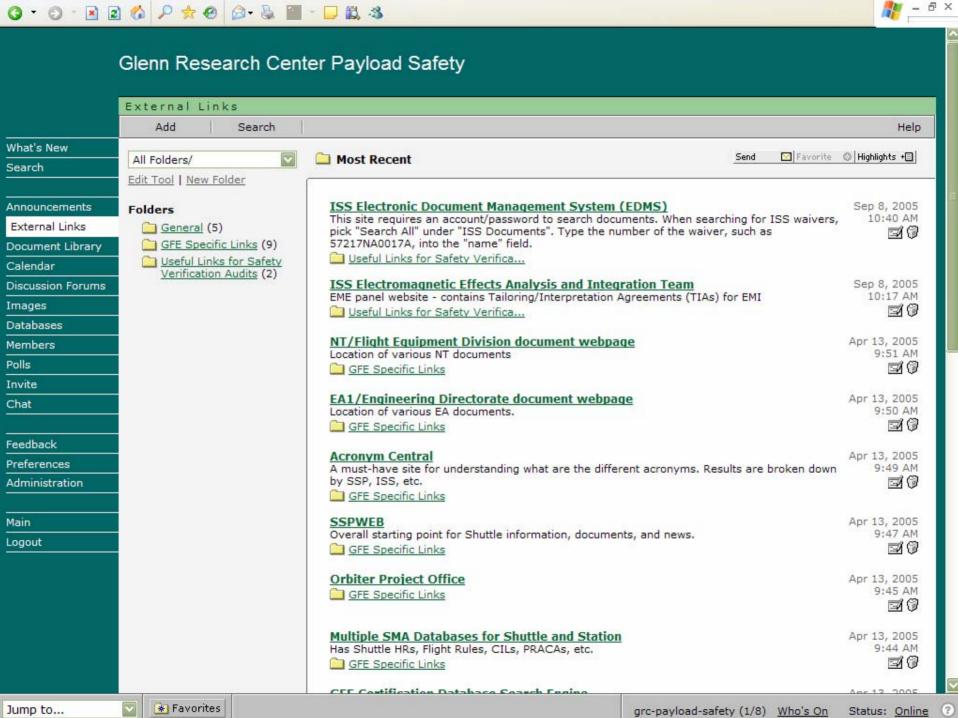
## Jerri Ling

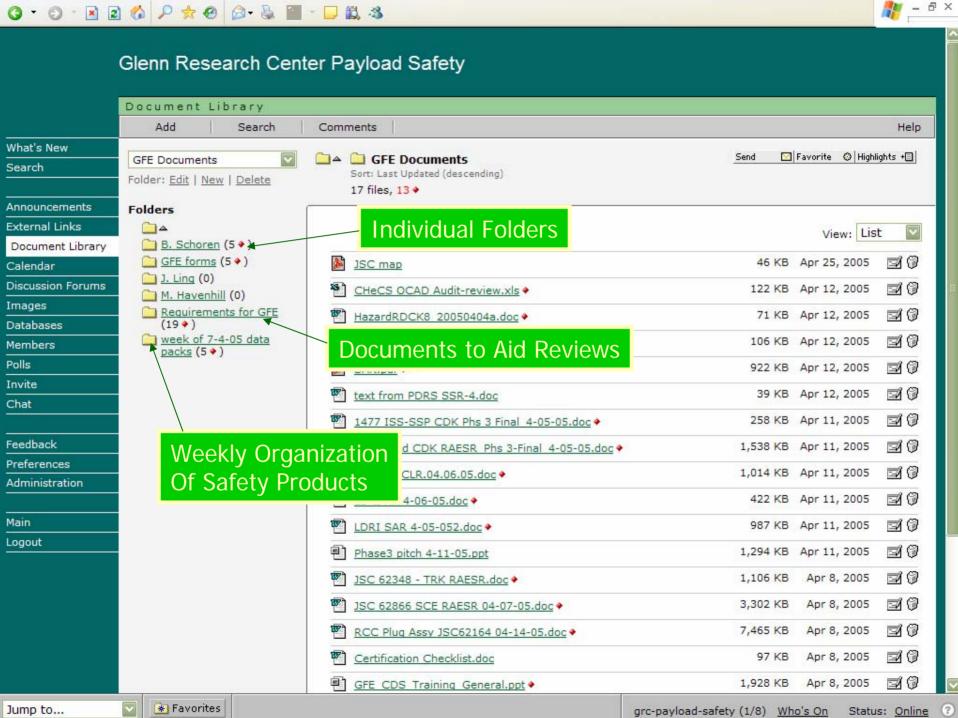
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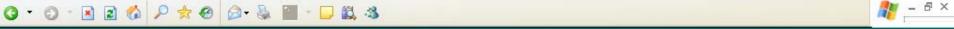
#### William Schoren

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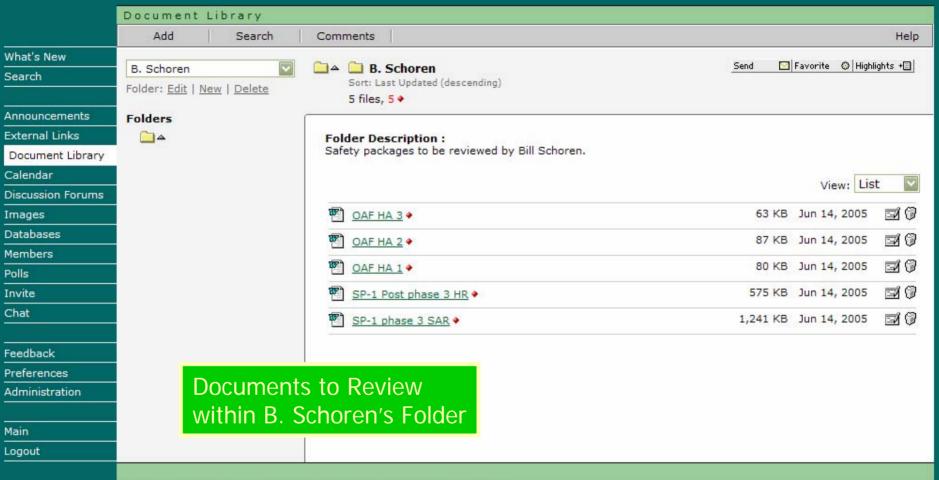






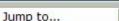


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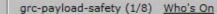
NASA Official: Steve Newman Site Curator: Jeffrey Hawley Contact PBMA Administrators

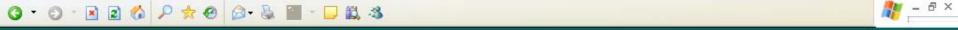




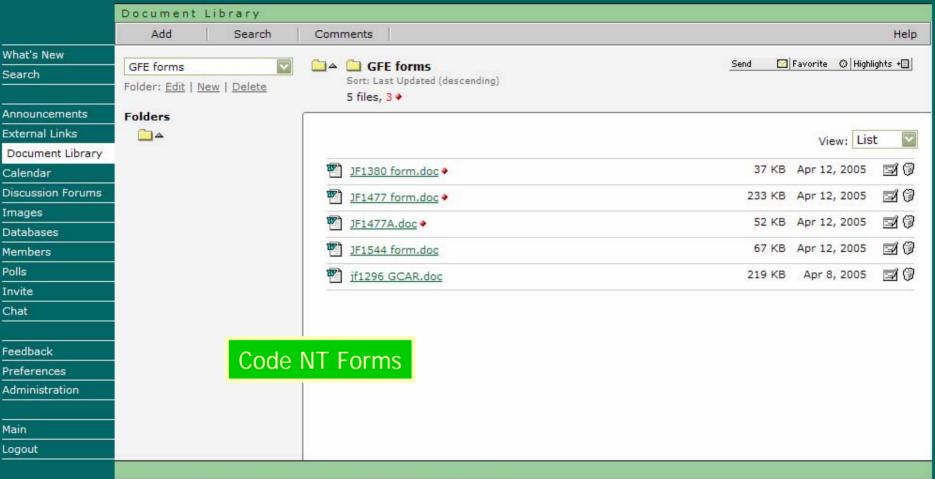








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